



Mr. Sotir Papalilo  
Westwood Associates LLC  
PO Box 250  
Shrewsbury, MA 10545

Catherine Oranchak, LA  
122 Sunset Rd.  
Arlington, MA 02474

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APR 12 2021

Zoning Board of Appeals

RE: Tree Health Assessment Report: 23 Prentice Street, Grafton, Massachusetts

Sotir and Catherine,

This report is a follow up to our inspection and assessment of all woodland trees between the property boundaries of 23 Prentice Street and the work limits for the proposed Prentice Place housing development. As you recall, we met at the site on March 18 with members of your development team and representative from the Town of Grafton to identify the subject area and any trees that should not be retained during construction.

Following are the results of the assessment, a site plan of the property with the trees to be removed identified, tree inventory data and photographs of the identified trees.

Thanks for the opportunity to assist you with this project. Please do not hesitate to contact me if you have any questions or need additional services.

Best regards,

David Hawkins, Consulting Arborist  
Urban Forestry Solutions, Inc.

RECEIVED TOWN CLERK  
GRAFTON, MA  
2021 APR 12 AM 8:47

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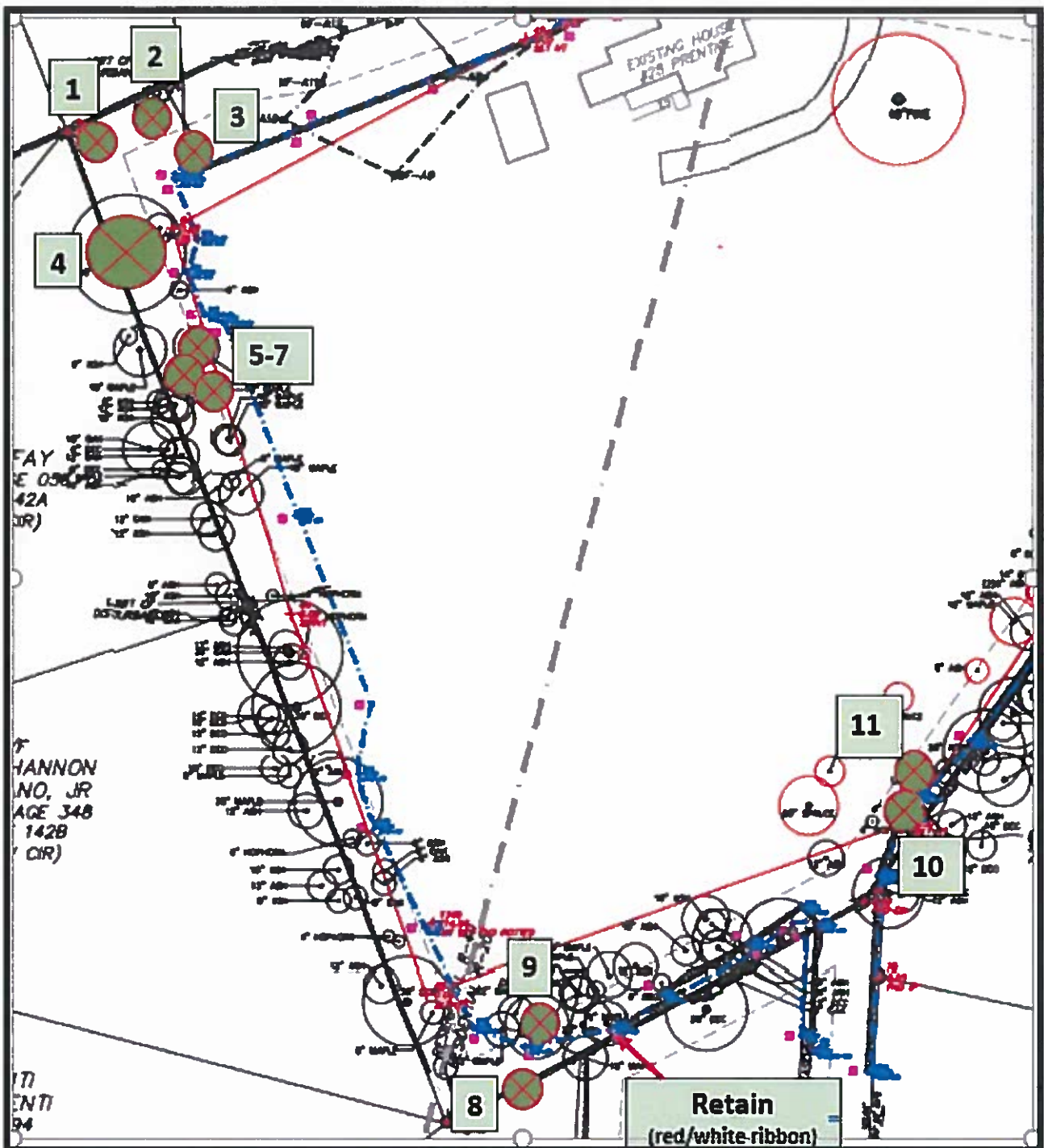
## Tree Assessment Summary

Approximately 48 trees are in the wooded area between the property boundary of 23 Prentice Street and the limit of work line delineated on the Site Development Plan for Prentice Place submitted by Hannigan Engineering. Of the 48 trees, 11 were determined to be dead, structurally unsound, or white ash (*Fraxinus americana*), a species that is or will be infested with the Emerald Ash Borer (*Agrilus planipennis*) – an invasive insect that is fatal to all ash species and found in most Massachusetts towns. Other species on the removal list are black cherry (*Prunus serotina*), white oak (*Quercus alba*), butternut (*Juglans cinerea*), sugar maple (*Acer saccharum*) and boxelder (*Acer negundo*).

The trees to be removed are marked with an orange paint dot on the side of the tree facing the proposed development area. Seven trees are in the northwest corner of the property, two in the southwest corner and two along the south border just east of the utility easement right of way. One tree in this area is marked with red and white ribbon and is to be retained. All other trees along the east and north borders are within the work zone or were assessed as healthy.

The site plan on the next page shows the 11 trees marked for removal (green circles) with numbers corresponding to the data sheet on page 4. Note, since all marked trees were in the west and south portions of the plan, only that portion of the plan is shown. Photographs of the 11 trees follows on page 5.

## Site Plan (not to scale)



## Inventory Data

No.	Species	DBH Cal.	Est. Tree Hht	Cond	Location	Notes
1	White Ash	15	45	Dead	Northwest corner	Added to plan
2	White Ash	10	35	Dead	Northwest corner	Added to plan
3	Black Cherry	10	30	Dead	Northwest corner	Added to plan
4	White Oak	43.5	65	Poor	Northwest property line	Large, old tree. Significant decay and weak branch attachment north side. 30 to 40 percent dead
5	Butternut	16.5	50	Fair	Northwest property line	Decay at base of tree. Lean to east and proposed construction
6	White Ash	9	40	Dead	Northwest property line	Next to wall. Note nearby ash on abutting property dead also
7	Sugar Maple	9	40	Fair	Northwest property line	Decay at base of tree. Lean to east and proposed construction
8	Boxelder	9	25	Poor	Southwest property line	45 degree lean and all weight toward and over house.
9	White Ash	28	65	Poor	Southwest property line	Decay at base. One leader dead broken off. Weak branch attachment
10	White Ash	15.5	50	Fair to Good	South property line. East of util. easement	Tree is alive but infested with Emerald Ash Borer.
11	White Ash	5	25	Poor	South property line. East of util. easement	Poor form. Broken top. ALB presence likely



## Photographs of Trees to be Removed



TREES #1 & #2



TREE #3



TREE #4. Note decayed area and weak branch attachment (arrow)





TREE #5



TREE #6

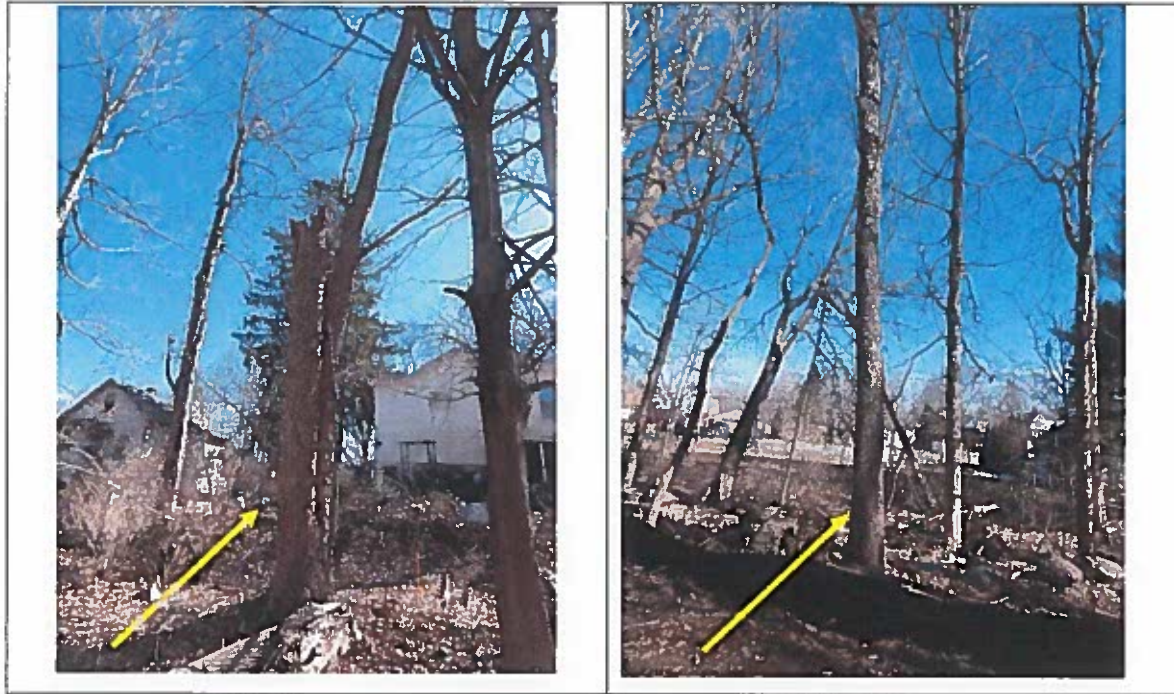


TREE #7



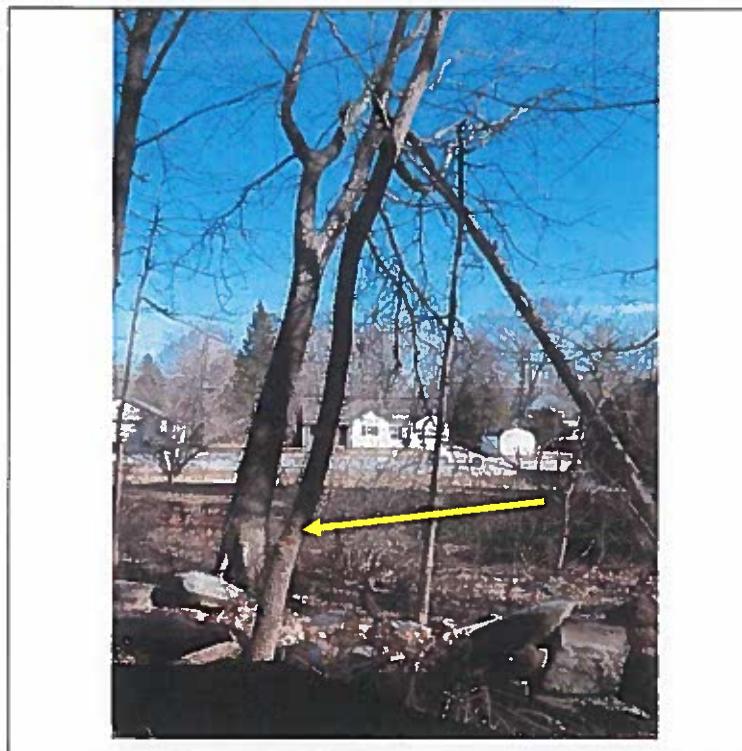
TREE #8





TREE #9

TREE #10



TREE #11

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## **Disclaimer**

By the nature or their size, weight, miscellaneous structure issues, constant exposure to the weather and the elements, and susceptibility to insect's pest and decay organisms, trees always pose an inherent degree of risk of breakage or structural failure.

Recommendations made by Urban Forestry Solutions, Inc. are intended to minimize, reduce, or eliminate hazardous conditions associated with trees. However, there is not, and can never be, any guarantee or certainty that these recommendations will totally correct unsafe conditions or prevent future failure of a tree.

The recommendations carried out as stated should reduce the risk, but they cannot completely eliminate the risk (except when the tree is removed), especially in the event of future growth, further deterioration, subsequent insect attacks, extreme weather conditions, or other external factors such as lightning strikes vehicular damage, or other acts of God or man.



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## Certification

I certify the statements in this report are, to the best of my knowledge, true, accurate and represent my professional opinion.



Date: March 23, 2021

David C. Hawkins, Consulting Arborist

Certified Arborist: Mass. Arborists Association

MCA#1425

International Society of Arboriculture  
Board Certified Master Arborist

ISA# NE-0541-B

Licensed Arborist: Rhode Island Department of  
Environmental Management

RI # 696

Member: American Society of Consulting Arborists

Member: The Tree Care Industry

Tree Risk Assessment Qualification (TRAQ)  
International Society of Arboriculture

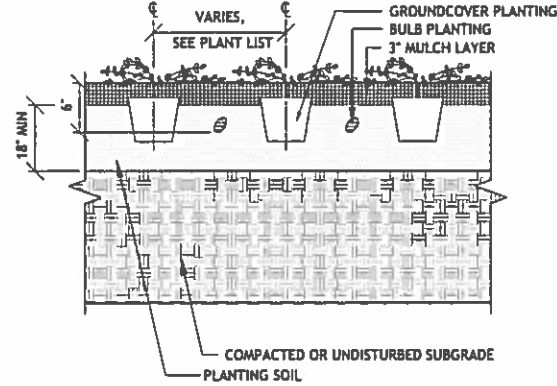
March 2014  
Renewed Oct. 2018

Mass. Tree Wardens and Foresters Assoc.  
Executive Board Member

NOTE: RETAINING WALL MATERIAL TO BE UNILOCK "BRUSSELS DIMENSIONAL SYSTEM", COLOR SHOWN IS LIMESTONE



6 RETAINING WALL  
SCALE: 1"=1'-0"

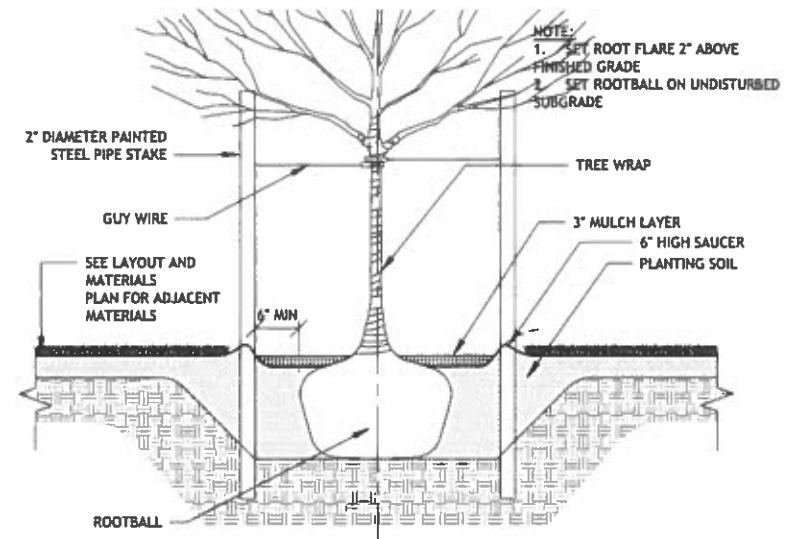


4 PERENNIAL, GROUNDCOVER & BULB PLANTING  
SCALE: 1"=1'-0"

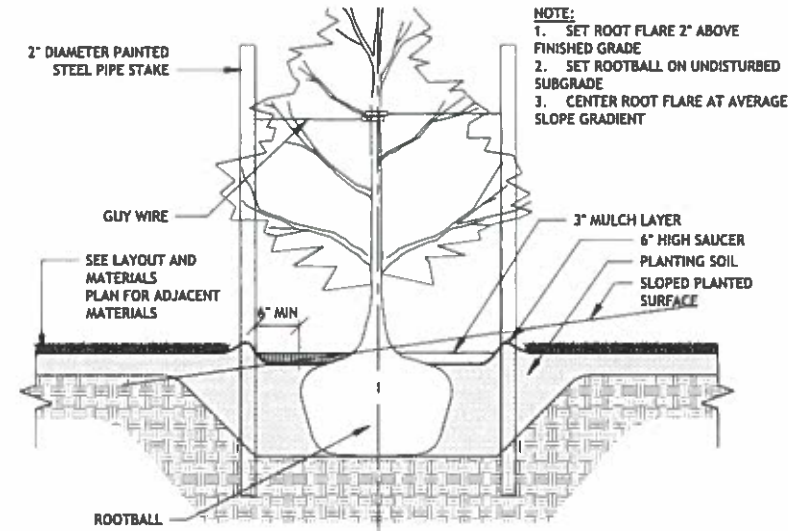
PLANT LIST

SYMBOL	QUANTITY	SIZE	BOTANICAL NAME	COMMON NAME	REMARKS	CHARACTERISTICS
TREES						
AC	10	6-8' HT	ABIES CONCOLOR	WHITE FIR	B&B, HEAVY	
AG	5	5-6' HT	AMELANCHIER GRANDIFLORA "AUTUMN BRILLIANCE"	AUTUMN BRILLIANCE AMELANCHIER	MULTISTEMMED, HEAVY	WHITE, APRIL. FRUIT. FALL COLOR
CC	9	2-2½" CAL	CARPINUS CAROLINIANA	AMERICAN HORNBEAM	B&B	WHITE, FEB. FALL COLOR
CE	1	2½-3" CAL	CERCIS CANADENSIS "APPALACHIAN RED"	APPALACHIAN RED	B&B, HEAVY, SPECIMEN	FUSCIA PINK, APRIL. FALL COLOR
JV	3	6-8' HT	JUNIPERUS VIRGINIANA	RED CEDAR	B&B, HEAVY	
MG	3	8-10' HT	METASEQUOIA GLYPTOSTROBILDES	DAWN REDWOOD	B&B, SPECIMEN	
MV	3	7-8' HT	MAGNOLIA VIRGINIANA "MOONGLOW"	MOONGLOW SWEETBAY MAGNOLIA	TREE FORM	WHITE, MAY-JUNE. FRUIT
NS	5	2-2½" CAL	NYSSA SYLVATICA	BLACK TUPELO	B&B, SPECIMEN	
PS	16	6-8' HT	PINUS STROBUS	EASTERN WHITE PINE	B&B, HEAVY	
QP	15	2½-3" CAL	QUERCUS PALUSTRIS	PIN OAK	B&B, SPECIMEN	
QR	7	2-2½" CAL	QUERCUS RUBRA	RED OAK	B&B	
SHRUBS						
BB	10	3 GAL	BUDDLEJA "BLUE CHIP LOW AND BEHOLD"	BLUE CHIP LO AND BEHOLD BUTTERFLYBUSH	MATCHED	BLUE, JUNE- SEPT.
CO	11	3 GAL	CEPHALANTHUS OCCIDENTALIS	BUTTONBUSH	MATCHED	WHITE, JUNE
CA	42	3 GAL	CLETHRA ALNIFOLIA "HUMMINGBIRD"	HUMMINGBIRD SWEET PEPPERBUSH	MATCHED	WHITE, JULY-AUGUST
CS	13	3 GAL	CORNUS SERICEA "ARCTIC FIRE"	ARCTIC FIRE RED-TWIG DOGWOOD	MATCHED	CREAM-WHITE, MAY-JUNE
HQ	14	5 GAL	HYDRANGEA QUERCIFOLIA "SNOW QUEEN"	SNOW QUEEN OAKLEAF HYDRANGEA	MATCHED	WHITE-PINK, MAY-JULY
IC	6	3 GAL	ILEX CRENETA "STEEDS"	STEEDS JAPANESE HOLLY		
RK	15	3 GAL	ROSA "WHITE KNOCKOUT"	WHITE KNOCKOUT ROSE	SPECIMEN	WHITE, MAY-FROST
GROUNDCOVER AND PERENNIALS						
HB	51	1 GAL	HEMEROCALLIS "BIG TIME HAPPY"	BIG TIME HAPPY DAYLILY	24" OC, TRI. SP.	LEMON YELLOW, SP-FALL
NR	46	1 GAL	NEPETA RACEMOSA "WALKERS LOW"	WALKER'S LOW CATMINT	24" OC, TRI. SP.	LAVENDER, APRIL-SEPT.
VM	422	1 QT	VINCA MINOR "BOWLES"	BOWLES PERIWINKLE	18" OC, TRI. SP.	LAVENDER BLUE, MAY-JUNE. EVERGREEN

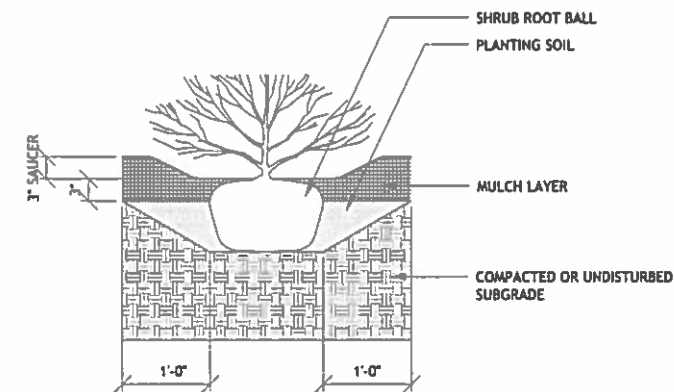
5 PLANT LIST  
SCALE: NTS



1 DECIDUOUS TREE PLANTING  
SCALE: 1"=1'-0"



2 EVERGREEN TREE PLANTING  
SCALE: 1"=1'-0"



3 SHRUB PLANTING DETAIL  
SCALE: 1"=1'-0"

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Catherine Oranchak /  
Landscape Architect

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9781 752 8878 www.catherineoranchak.com

No. Description Date  
DWG ISSUE & REVISION HISTORY

Stamp

Key Plan

Project Title:  
**PRENTICE PLACE**  
GRAFTON, MASSACHUSETTS

Drawing Title:  
**PLANTING DETAILS**

Project No 21-002 Scale: VARIES  
Drawn By: clo  
Checked By: clo  
Approved By: clo  
Date: 4/14/21

Drawing No. **L 1.2**





ABIES CONCOLOR/ WHITE FIR



CERCIS CANADENSIS/ EASTERN REDBUD



METASEQUOIA GLYPTOSTROBILIS/ DAWN REDWOOD



NYSSA SYLVATICA/ BLACK TUPELO



PINUS STROBUS/ EASTERN WHITE PINE

No.	Description	Date
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DWG ISSUE & REVISION HISTORY

Stamp

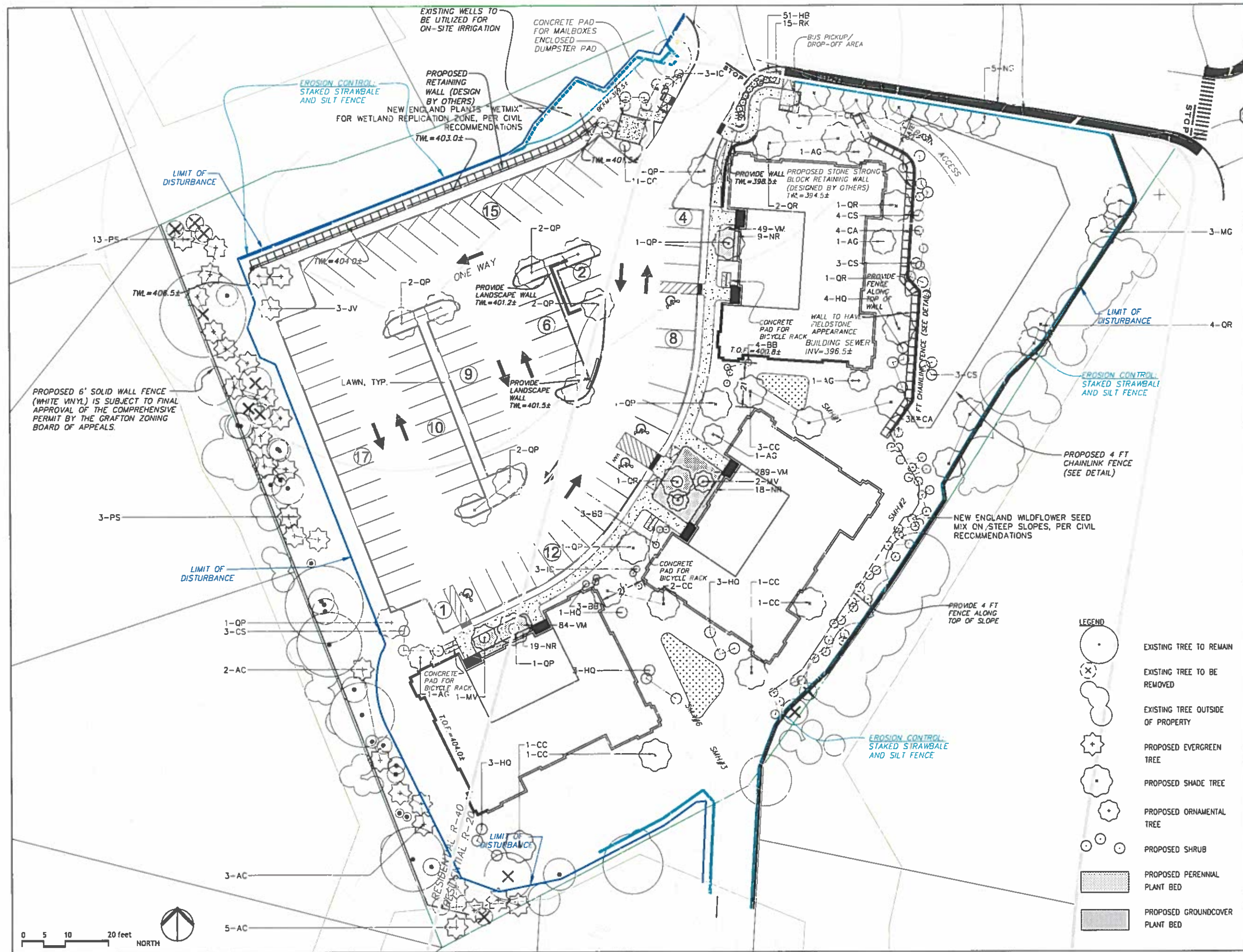
Key Plan

Project Title:  
**PRENTICE  
PLACE**  
GRAFTON, MASSACHUSETTS

Drawing Title:  
**PLANT IMAGES**

Project No 21-002      Scale: VARIES  
Drawn By: clo  
Checked By: clo  
Approved By: clo  
Date: 4/14/21





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#### NOTES

1. ALL AREAS NOT NOTED AS WILDFLOWER SEED OR NEW ENGLAND WETLAND PLANTS "WETMIX" TO BE SEEDING LAWN.

No.	Description	Date
DWG ISSUE & REVISION HISTORY		
Stamp		
Key Plan		

Project Title:  
**PRENTICE  
PLACE**  
GRAFTON, MASSACHUSETTS

Drawing Title:  
**PLANTING PLAN**

Project No 21-002 Scale: 1" = 20'-0"  
Drawn By: cdo  
Checked By: cdo  
Approved By: cdo  
Date: 4/14/21

Drawing No:  
**L1.1**